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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR			ITORNEY DOCKET NO.	
09/241,948	02/02/9	9 FENCL		F	71800/90598	
Γ	- . , , , , , , , , , , , , , , , , , , ,			EXAMINER		
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ARTER & HADDEN LLP				MCKANE, E		
1100 HUNTIN	NGTON BUILI	ART UNIT	PAPER NUMBER			
925 EUCLID	AVENUE				5	
CLEVELAND (DH 44115-14	475		1744	.	
				DATE MAILED:		
				04/19/01		

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

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		Application No	о.	Applicant(s)					
	Office Action Summary	09/241,948		FENCL ET AL.					
	·	Examiner		Art Unit					
٠		Leigh McKane		1744					
Period fo	- The MAILING DATE of this communication a or Reply	ppears on the cove	r sheet with the co	prrespondence ac	ddress				
THE - Exte efter - If the - If NC - Failu - Any I	ORTENED STATUTORY PERIOD FOR RE MAILING DATE OF THIS COMMUNICATIO nsions of time may be available under the provisions of 37 CFR SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a period for reply is specified above, the maximum statutory per re to reply within the set or extended period for reply will, by stately received by the Office later than three months after the made patent term adjustment. See 37 CFR 1.704(b).	N. R 1.136 (a). In no event, ho reply within the statutory m iod will apply and will expir atute, cause the application	owever, may a reply be tin ninimum of thirty (30) day e SIX (6) MONTHS from to become ABANDONE	nely filed s will be considered tim the mailing date of this D (35 U.S.C. § 133).					
1)	Responsive to communication(s) filed on _	·							
2a)	This action is FINAL . 2b)⊠	This action is non-	final.						
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Dispositi	on of Claims								
4) 🖂	Claim(s) 1-32 is/are pending in the applica	tion.							
	4a) Of the above claim(s) is/are withdrawn from consideration.								
5)									
6)🖂	☑ Claim(s) <u>1,2,7-10,14-16,18,19,22 and 27-30</u> is/are rejected.								
7) 🖂									
8)									
Applicati	on Papers								
9)	The specification is objected to by the Exan	niner.							
10)	The drawing(s) filed on is/are objected	ed to by the Examii	ner.						
11)									
12)									
Priority ι	ınder 35 U.S.C. ≸ 119								
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. \$ 119(a)-(d) or (f).									
a) ☐ All b) ☐ Some * c) ☐ None of:									
	1. Certified copies of the priority documents have been received.								
	2. Certified copies of the priority documents have been received in Application No								
	3. Copies of the certified copies of the priority documents have been received in this National Stage								
* 5	application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.								
	Acknowledgement is made of a claim for do		·						
Attachmen	t(s)								
16) Noti	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948 rmation Disclosure Statement(s) (PTO-1449) Paper No			ry (PTO-413) Paper Patent Application (

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Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claims 14, 15, 18, 19, and 28-30 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 14, "the plural seals" and in claims 15, 18, and 19, "the seals" all lack positive antecedent basis because a recitation of "the base seals against" or "the cover seals tightly" in claim 1 does not provide positive antecedent basis for a seal in claims 14, 15, 18, and 19.

In claims 28-30, the terminology "the seals" in line 2 lacks positive antecedent basis because a recitation of "the base sealing against" or "the cover sealing tightly" in claim 22 does not provide positive antecedent basis for a "seal" in claims 28-30.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

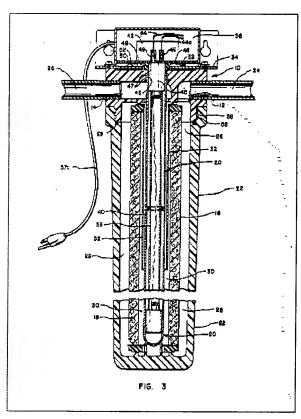
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1. Determining the scope and contents of the prior art.

- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 5. Claims 1, 2, 7-10, 14, and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Anderson (U.S. Patent No. 4,971,687) in view of Wiesmann (U.S. Patent No. 5,151,174).

Anderson teaches a germicidal lamp for water treatment including an elongate germicidal tube 38 including an envelope 40 and a stem 45. A fixture includes a cover 36 and a base 34, the base having an upper and a lower surface. The lower surface of the base "seals" against a wall 10 and the cover is detachable from the base by removing screws. Together, the cover 36 and



the base 34 define a "sealed" interior space. The base 34 includes an opening (not labeled) through which the stem 45 of the tube 38 is passed. A tube-holder 48 includes an engaging surface to secure the stem of the tube. Insertion of the tube in the base seals the opening in the base. Within the interior space of the fixture is a power supply, which is intended to "receive electric power of usual household voltage, e.g., 110 to 120 volts, through a power connection 55c and to transform it into a proper higher voltage source of power, which will vary according to lamp design."

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See col.3, lines 17-21. Moreover, it is disclosed by Anderson that the "parts may be made of any material suitable for exposure to water without undergoing corrosion. See col.4, lines 13-15.

Anderson does not disclose that the tube is a type which emits UVC radiation. However, Anderson does teach that the "irradiation means 20 comprises an ultraviolet lamp 38, e.g., an ozone or non-ozone lamp, and a quartz sleeve 40 which is transparent to U-V rays." See col.3, lines 22-24. Thus, the lamp may be non-ozone producing. Wiesmann teaches the use of replaceable UVC-producing lamps 14 in a water treatment apparatus. Since Wiesmann evidences that UVC radiation is successful in the field of water treatment, it would have been obvious to one of ordinary skill in the art to use such for the lamps of Anderson.

With respect to the weight of the lamp, this limitation is not patentably significant since it at most relates to the size of the article under consideration, which is not ordinarily a matter of invention. <u>In re Yount</u>, 36 C.C.P.A. (Patents) 775, 171 F.2d 317, 80 USPQ 141.

As to the cover and base having a clamshell design, the replacement of the screw-type attachment means for a hinge is no more than a matter of design choice and is readily known to one of ordinary skill in the art.

With respect to the tube holder **48** being part of the base **34**, it has been held that use of a one-piece construction instead of a two-pieced construction, as disclosed by Anderson, would be merely a matter of obvious engineering choice. <u>In re Fridolph</u>, 50 CCPA 745, 89 F.2d 509, 135 USPQ 319. <u>In re Larson</u>, 144 USPQ 347 (CCPA 1965).

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6. Claims 22 and 27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Anderson.

Anderson teaches a germicidal lamp for water treatment including an elongate germicidal tube 38 including an envelope 40 and a stem 45. A fixture includes a cover 36 and a base 34, the base having an upper and a lower surface. The lower surface of the base "seals" against a wall 10 and the cover is detachable from the base by removing screws. Together, the cover 36 and the base 34 define a "sealed" interior space. The base 34 includes an opening (not labeled) through which the stem 45 of the tube 38 is passed. A tube-holder 48 includes an engaging surface to secure the stem of the tube. Insertion of the tube in the base seals the opening in the base. Within the interior space of the fixture is a power supply, which is intended to "receive electric power of usual household voltage, e.g., 110 to 120 volts, through a power connection 55c and to transform it into a proper higher voltage source of power, which will vary according to lamp design." See col.3, lines 17-21. Moreover, it is disclosed by Anderson that the "parts may be made of any material suitable for exposure to water without undergoing corrosion. See col.4, lines 13-15.

With respect to the weight of the lamp, this limitation is not patentably significant since it at most relates to the size of the article under consideration, which is not ordinarily a matter of invention. <u>In re Yount</u>, 36 C.C.P.A. (Patents) 775, 171 F.2d 317, 80 USPQ 141.

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Allowable Subject Matter

7. Claims 15, 18, 19, and 28-30 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

- 8. Claims 3-6, 11-13, 17, and 23-26 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 9. Claims 20, 21, 31, and 32 are allowed.
- 10. The following is a statement of reasons for the indication of allowable subject matter:

 Anderson with Wiesmann fails to teach the airflow rate and temperature; the UVC radiation
 fluence; a spring clamp tube holder; a tube holder attached to the cover of the fixture; an
 electrical connector included in the tube holder; a seal that can withstand air pressure of at least
 15, 20, or 30 inches of water gage; or electrical leads including piggyback connectors. Nor does
 the combination of Anderson with Wiesmann give the skilled artisan motivation to add such
 especially since both Anderson and Wiesmann are operating in a water environment.
- The following is an examiner's statement of reasons for allowance: Since both Anderson and Wiesmann are used in a water environment, there is no motivation to use these lamp systems in an air handling or HVAC system.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Conclusion

The art made of record and not relied upon is considered pertinent to applicant's 12.

disclosure. Although not prior art, all of Brickley, Bach, and Fencl et al teach similar devices.

13. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Leigh McKane whose telephone number is 703-305-3387. The

examiner can normally be reached on Monday-Wednesday (7:15 am-4:45 pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Robert J. Warden can be reached on 703-308-2920. The fax phone numbers for the

organization where this application or proceeding is assigned are 703-305-7719 for regular

communications and 703-305-3599 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is 703-308-0661.

Primary Examiner

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April 18, 2001